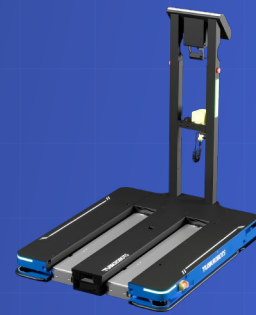


TUSK ES-S

Standalone intelligent AMR



Technical specifications

Basic parameters

Dimensions (as published)*	1,455 × 1,060 × 170 / 1441 mm*
Maximum lifting weight	1,000 kg
Turning width	1,800 mm
System	Standalone
HMI	10 inches
Operating temperature	0-45 °C

* Total height including the tower

Navigation & movement

Navigation	SLAM + DM code
Speed, unloaded	2.0 m/s
Speed, fully loaded	1.8 m/s
Stop accuracy	±20 mm / ±2°
Maximum gap	40 mm
Maximum slope	4° (7%)
Maximum step	15 mm

Safety protection

Obstacle detection	Dual front + dual rear laser sensors; 360° detection
Safety controls	Emergency stop and reset button
Mechanical protection	Full-body protection strip
Alarm functions	Voice and visual alarms

Lithium battery performance

Battery type	LFP (LiFePO ₄)
Endurance	≥8 h
Charging time	≤2 h
Battery life	1,500 full cycles

Operation modes

Standalone operation	Supported
Cluster scheduling	Supported
VDA 5050 integration	Not supported